

03500.016040.1

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|  |   |                            |
|--|---|----------------------------|
| In re Divisional Application of:           | ) |                            |
|  | : | Examiner: Unassigned       |
| Akira NAGASHIMA, et al.                    | ) |                            |
|  | : | Group Art Unit: Unassigned |
| Application No.: Divisional of U.S. Appln. | ) |                            |
| No.: 10/021,091                            | : |                            |
| Filed December 19, 2001                    | ) |                            |
|  | : |                            |
| Filed: August 6, 2003                      | ) |                            |
|  | : |                            |
| For: RECORDING METHOD, INK                 | ) |                            |
| CARTRIDGE, PRINTING DEVICE                 | : |                            |
| AND INFORMATION RECORDING                  | ) | August 6, 2003             |
| APPARATUS                                  | : |                            |

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Each of the documents was cited in Application No. 10/021,091 (the "'091 Application"), the parent application of this divisional application.

The concise explanation of relevance for the non-English documents may be found in the specification at pages 2, 10, 73-75 and 78. (Some of the U.S. patents are mentioned

on pages 73-75 of the specification.) Also, Applicants obtained English language computer database Abstracts for the non-English documents and attached them to the respective copies submitted in the '091 application. English language counterparts, where readily available, were also enclosed.

The Examiner's attention is also directed to the following U.S. Application:

| <u>APPLN NO.</u> | <u>FILING DATE</u> | <u>GAU</u> | <u>APPLICANT</u>          | <u>STATUS</u> |
|------------------|--------------------|------------|---------------------------|---------------|
| 09/672,818       | 09/29/2000         | 2854       | Shinichi HAKAMADA, et al. | pending       |

A copy of the cited application was previously submitted in the '091 Application.

Copies of the listed documents were previously submitted, or cited by the Examiner, in the parent application. Therefore, copies are not being provided in accordance with 37 C.F.R. § 1.98(d). However, if copies are not available to the Examiner, the Examiner is invited to telephone Applicants' undersigned representative to request them. In addition, U.S. Publication No. 2002-0109765 and U.S. Patent Nos. 6,474,803 and 6,426,766 are enclosed because they were previously submitted as Application Nos. 10/057,970; 09/260,489; and 08/881,080, respectively, and they have since been published or issued as patents.

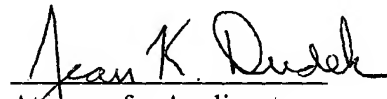
No fee or certification is required in connection with this Information Disclosure Statement, since it is being submitted prior to the issuance of a first Official Action on the merits.

CONCLUSION

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,

  
\_\_\_\_\_  
Attorney for Applicants  
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|---|--|--|---|--|--|--|
| FORM PTO 1449 (modified)<br><br>U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE<br><br>LIST OF REFERENCES CITED BY APPLICANT(S)<br>(Use several sheets if necessary) |  |  | ATTY DOCKET NO.<br><b>03500.016040.1.</b>   |  | APPLICATION NO.<br><b>Divisional of 10/021,091</b> |  |
| Date Submitted to PTO: <b>August 6, 2003</b>  |  |  | APPLICANT<br><b>Akira NAGASHIMA, et al.</b> |  |  |  |
| FILING DATE<br><b>August 6, 2003</b>  |  |  | GROUP<br><b>Unassigned</b>                  |  |  |  |

| U.S. PATENT DOCUMENTS |                    |            |                  |       |          |                               |
|-----------------------|--------------------|------------|------------------|-------|----------|-------------------------------|
| *EXAMINER<br>INITIAL  | DOCUMENT<br>NUMBER | DATE       | NAME             | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|                       | 4,313,124          | 01/26/1982 | Hara             | 346   | 140 R    |                               |
|                       | 4,345,262          | 08/17/1982 | Shirato et al.   | 346   | 140      |                               |
|                       | 4,463,359          | 07/31/1984 | Ayata et al.     | 346   | 1.1      |                               |
|                       | 4,459,600          | 07/10/1984 | Sato et al.      | 346   | 140      |                               |
|                       | 4,557,761          | 12/10/1985 | Kobayashi et al. | 106   | 22       |                               |
|                       | 4,558,333          | 12/10/1985 | Sugitani et al.  | 346   | 140      |                               |
|                       | 4,608,577          | 08/26/1986 | Hori et al.      | 346   | 140      |                               |
|                       | 4,632,703          | 12/30/1986 | Koike et al.     | 106   | 22       |                               |
|                       | 4,689,078          | 08/25/1987 | Koike et al.     | 106   | 22       |                               |

| FOREIGN PATENT DOCUMENTS |                    |            |         |       |          |   |
|--------------------------|--------------------|------------|---------|-------|----------|---|
|                          | DOCUMENT<br>NUMBER | DATE       | COUNTRY | CLASS | SUBCLASS | TRANSLATION<br>YES/NO/<br>OR ABSTRACT                             |
|                          | JP 54-56847 A      | 05/08/1979 | Japan   |       |          | <b>Abstract<br/>previously submitted</b>                          |
|                          | JP 59-123670 A     | 07/17/1984 | Japan   |       |          | <b>Abstract<br/>previously submitted</b>                          |
|                          | JP 59-138461 A     | 08/08/1984 | Japan   |       |          | <b>Abstract<br/>previously submitted</b>                          |
|                          | JP 60-71260 A      | 04/23/1985 | Japan   |       |          | <b>Abstract<br/>previously submitted</b>                          |
|                          | JP 2-33038 A       | 02/02/1990 | Japan   |       |          | <b>Abstract<br/>previously submitted</b>                          |
|                          | JP 5-293976 A`     | 11/09/1993 | Japan   |       |          | <b>Abstract<br/>previously submitted</b>                          |
|                          | JP 6-191143 A      | 07/12/1994 | Japan   |       |          | <b>Abstract and<br/>U.S. Counterpart<br/>previously submitted</b> |

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|--|-----------------|
| OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.) |                 |
| EXAMINER   | DATE CONSIDERED |

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|   |                    |            | APPLICANT<br><b>Akira NAGASHIMA, et al.</b> |       |  |   |
|   |                    |            | FILING DATE<br><b>August 6, 2003</b>        |       | GROUP<br><b>Unassigned</b>                         |   |
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| *EXAMINER<br>INITIAL  | DOCUMENT<br>NUMBER | DATE       | NAME  | CLASS | SUBCLASS   | FILING DATE<br>IF APPROPRIATE                                     |
|   | 4,723,129          | 02/02/1988 | Endo et al.                                 | 346   | 1.1  |   |
|   | 4,740,796          | 04/26/1998 | Endo et al.                                 | 346   | 1.1  |   |
|   | 4,838,938          | 06/13/1989 | Tomida et al.                               | 106   | 22   |   |
|   | 4,849,770          | 07/18/1989 | Koike et al.                                | 346   | 1.1  |   |
|   | 4,853,036          | 08/01/1989 | Koike et al.                                | 106   | 20   |   |
|   | 4,923,515          | 05/08/1990 | Koike et al.                                | 106   | 22   |   |
|   | 4,957,533          | 09/18/1990 | Koike et al.                                | 106   | 20   |   |
|   | 4,965,612          | 10/23/1990 | Sakaki et al.                               | 346   | 1.1  |   |
| FOREIGN PATENT DOCUMENTS  |                    |            |   |       |  |   |
|   | DOCUMENT<br>NUMBER | DATE       | COUNTRY                                     | CLASS | SUBCLASS   | TRANSLATION<br>YES/NO/<br>OR ABSTRACT                             |
|   | JP 6-322307 A      | 11/22/1994 | Japan                                       |       |  | <b>Abstract and<br/>U.S. Counterpart<br/>previously submitted</b> |
|   | JP 7-9755 A        | 01/13/1995 | Japan                                       |       |  | <b>Abstract<br/>previously submitted</b>                          |
|   | JP 7-51687 A       | 02/28/1995 | Japan                                       |       |  | <b>Abstract<br/>previously submitted</b>                          |
|   | JP 7-305013 A      | 11/21/1995 | Japan                                       |       |  | <b>Abstract<br/>previously submitted</b>                          |
|   | JP 8-53639 A       | 02/27/1996 | Japan                                       |       |  | <b>Abstract<br/>previously submitted</b>                          |
|   | JP 8-151545 A      | 06/11/1996 | Japan                                       |       |  | <b>Abstract and<br/>U.S. Counterpart<br/>previously submitted</b> |
| OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)  |                    |            |   |       |  |   |
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| Date Submitted to PTO: <b>August 6, 2003</b>  |                    |            | APPLICANT<br><b>Akira NAGASHIMA, et al.</b> |       |  |   |
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| U.S. PATENT DOCUMENTS   |                    |            |   |       |  |   |
| *EXAMINER<br>INITIAL  | DOCUMENT<br>NUMBER | DATE       | NAME  | CLASS | SUBCLASS   | FILING DATE<br>IF APPROPRIATE                                     |
|   | 4,969,951          | 11/13/1990 | Koike et al.                                | 106   | 22   |   |
|   | 5,017,227          | 05/21/1991 | Koike et al.                                | 106   | 22   |   |
|   | 5,053,078          | 10/01/1991 | Koike et al.                                | 106   | 22   |   |
|   | 5,067,980          | 11/26/1991 | Koike et al.                                | 106   | 22   |   |
|   | 5,075,699          | 12/24/1991 | Koike et al.                                | 346   | 1.1  |   |
|   | 5,099,255          | 03/24/1992 | Koike et al.                                | 346   | 1.1  |   |
|   | 5,101,217          | 03/1992    | Iwata et al.                                | 347   | 100  |   |
|   | 5,118,351          | 06/02/1992 | Shirota et al.                              | 106   | 22   |   |
|   | 5,124,718          | 06/23/1992 | Koike et al.                                | 346   | 1.1  |   |
|   | 5,213,613          | 05/25/1993 | Nagashima et al.                            | 106   | 20   |   |
|   | 5,218,376          | 06/08/1993 | Asai et al.                                 | 346   | 1.1  |   |
| FOREIGN PATENT DOCUMENTS  |                    |            |   |       |  |   |
|   | DOCUMENT<br>NUMBER | DATE       | COUNTRY                                     | CLASS | SUBCLASS   | TRANSLATION<br>YES/NO/<br>OR ABSTRACT                             |
|   | JP 9-3375 A        | 01/07/1997 | Japan                                       |       |  | <b>Abstract and<br/>U.S. Counterpart<br/>previously submitted</b> |
|   | JP 9-1294 A        | 01/07/1997 | Japan                                       |       |  | <b>Abstract<br/>previously submitted</b>                          |
|   | JP 9-132729 A      | 05/27/1997 | Japan                                       |       |  | <b>Abstract<br/>previously submitted</b>                          |
|   | JP 9-137098 A      | 05/27/1997 | Japan                                       |       |  | <b>Abstract and<br/>U.S. Counterpart<br/>previously submitted</b> |
|   | JP 9-137098 A      | 05/27/1997 | Japan                                       |       |  | <b>Abstract and<br/>U.S. Counterpart<br/>previously submitted</b> |
|   | JP 9-137098 A      | 05/27/1997 | Japan                                       |       |  | <b>Abstract<br/>previously submitted</b>                          |
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| *EXAMINER<br>INITIAL  | DOCUMENT<br>NUMBER | DATE       | NAME             | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|                       | 5,254,157          | 10/19/1993 | Koike et al.     | 106   | 20       |                               |
|                       | 5,258,066          | 11/02/1993 | Kobayashi et al. | 106   | 22       |                               |
|                       | 5,296,022          | 03/22/1994 | Kobayashi et al. | 106   | 20       |                               |
|                       | 5,358,558          | 10/25/1994 | Yamamoto et al.  | 106   | 22       |                               |
|                       | 5,396,275          | 03/07/1995 | Koike et al.     | 347   | 101      |                               |
|                       | 5,409,529          | 04/25/1995 | Nagashima et al. | 106   | 22       |                               |
|                       | 5,451,251          | 09/19/1995 | Mafune et al.    | 106   | 22       |                               |
|                       | 5,478,383          | 12/26/1995 | Nagashima et al. | 106   | 22       |                               |
|                       | 5,482,545          | 01/09/1996 | Aoki et al.      | 106   | 22       |                               |
|                       | 5,485,188          | 01/16/1996 | Tochihara et al. | 347   | 101      |                               |
|                       | 5,500,023          | 03/19/1996 | Koike et al.     | 8     | 499      |                               |
|                       | 5,515,093          | 05/07/1996 | Haruta et al.    | 347   | 101      |                               |
|                       | 5,570,120          | 10/1996    | Sakaki et al.    | 347   | 105      |                               |

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|                          | DOCUMENT<br>NUMBER | DATE       | COUNTRY | CLASS | SUBCLASS | TRANSLATION<br>YES/NO/<br>OR ABSTRACT                    |
|                          | JP 9-165539 A      | 06/24/1997 | Japan   |       |          | Abstract and<br>U.S. Counterpart<br>previously submitted |
|                          | JP 9-241565 A      | 09/16/1997 | Japan   |       |          | Abstract and<br>U.S. Counterpart<br>previously submitted |
|                          | JP 9-255904 A      | 09/30/1997 | Japan   |       |          | Abstract and<br>U.S. Counterpart<br>previously submitted |
|                          | JP 9-286939 A      | 11/04/1997 | Japan   |       |          | Abstract and<br>U.S. Counterpart<br>previously submitted |
|                          | JP 10-7962 A       | 01/13/1998 | Japan   |       |          | Abstract and<br>U.S. Counterpart<br>previously submitted |

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|                       | 5,571,313          | 11/05/1996 | Mafune et al.    | 106   | 22       |                               |
|                       | 5,637,140          | 06/10/1997 | Fujioka et al.   | 106   | 31.35    |                               |
|                       | 5,658,376          | 06/10/1997 | Noguchi et al.   | 106   | 31.43    |                               |
|                       | 5,681,381          | 10/1987    | Auslander et al. | 347   | 100      |                               |
|                       | 5,686,951          | 11/11/1997 | Koike et al.     | 347   | 106      |                               |
|                       | 5,718,793          | 02/17/1998 | Inamoto et al.   | 106   | 235      |                               |
|                       | 5,733,363          | 03/31/1998 | Nagashima et al. | 106   | 31.43    |                               |
|                       | 5,743,945          | 04/28/1998 | Yamashita et al. | 106   | 31.58    |                               |
|                       | 5,764,261          | 06/09/1998 | Koike et al.     | 347   | 100      |                               |
|                       | 5,769,930          | 06/23/1998 | Sano et al.      | 106   | 31.36    |                               |
|                       | 5,795,375          | 08/18/1998 | Yamazaki et al.  | 106   | 31.57    |                               |

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|--------------------------|--------------------|------------|---------|-------|----------|--|
|                          | DOCUMENT<br>NUMBER | DATE       | COUNTRY | CLASS | SUBCLASS | TRANSLATION<br>YES/NO/<br>OR ABSTRACT                    |
|                          | JP 10-183043 A     | 07/07/1998 | Japan   |       |          | Abstract and<br>U.S. Counterpart<br>previously submitted |
|                          | JP 2783647         | 05/22/1998 | Japan   |       |          | Abstract and<br>U.S. Counterpart<br>previously submitted |
|                          | JP 10-193775 A     | 07/28/1998 | Japan   |       |          | Abstract<br>previously submitted                         |
|                          | JP 10-298462 A     | 11/10/1998 | Japan   |       |          | Abstract<br>previously submitted                         |
|                          | JP 10-298467 A     | 11/10/1998 | Japan   |       |          | Abstract<br>previously submitted                         |
|                          | JP 2833038         | 12/09/1998 | Japan   |       |          | Abstract<br>previously submitted                         |

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|   | 5,852,074          | 12/22/1998 | Tsutumi et al.                           | 523   | 161  |   |
|   | 5,861,056          | 01/19/1999 | Yamazaki et al.                          | 106   | 31.27  |   |
|   | 5,865,883          | 02/02/1999 | Teraoka et al.                           | 106   | 31.32  |   |
|   | 5,871,572          | 02/16/1999 | Marritt et al.                           | 106   | 31.36  |   |
|   | 5,902,387          | 05/11/1999 | Suzuki et al.                            | 106   | 22   |   |
|   | 5,932,139          | 08/03/1999 | Oshima et al.                            | 252   | 301.16   |   |
|   | 5,938,829          | 08/17/1999 | Higashiyama et al.                       | 106   | 31.58  |   |
|   | 6,036,307          | 03/14/2000 | Hakamada et al.                          | 347   | 106  |   |
|   | 6,051,057          | 04/18/2000 | Yatake et al.                            | 106   | 31.58  |   |
|   | 6,084,619          | 07/2000    | Takemoto et al.                          | 347   | 100  |   |
|   | 6,169,185          | 01/2001    | Likavec et al.                           | 548   | 305.1  |   |
|   | 6,214,963 B1       | 04/10/2001 | Noguchi et al.                           | 528   | 71   |   |
|   | 6,322,209 B1       | 11/27/2001 | Sato et al.                              | 347   | 106  |   |
|   | 6,398,355 B1       | 06/04/2002 | Shirota et al                            | 347   | 100  |   |
| FOREIGN PATENT DOCUMENTS  |                    |            |  |       |  |   |
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|   | JP 11-80639 A      | 03/26/1999 | Japan                                    |       |  | <b>Abstract and<br/>U.S. Counterpart<br/>previously submitted</b> |
|   | JP 2995853 B2      | 10/29/1999 | Japan                                    |       |  | <b>Abstract<br/>previously submitted</b>                          |
|   | JP 11-320921 A     | 11/24/1999 | Japan                                    |       |  | <b>Abstract<br/>previously submitted</b>                          |
|   | JP 2000-38529 A    | 02/08/2000 | Japan                                    |       |  | <b>Abstract<br/>previously submitted</b>                          |
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